

ABSTRACT OF THE DISCLOSURE

The present invention relates to an ankyrin repeat-rich membrane spanning (ARMS) polypeptide which is a downstream target of neurotrophin and ephrin receptor tyrosine
5 kinases. This ARMS polypeptide contains 1715 amino acid residues including four transmembrane domains, multiple ankyrin repeats, a sterile α motif domain, and a PDZ-binding motif. Immunofluorescence studies with anti-ARMS antibodies have found ARMS to be localized discreetly to the growth cone
10 of neurons.

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